

UDAYKIRAN PENIKALAPATI

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Professional Summary

Experienced **Software Developer** with 1 year of hands-on experience in designing and developing scalable, microservices-based applications using modern backend technologies such as **Python, Java**, Strong foundation in **object-oriented programming (OOP), design patterns, data structures**, and **RESTful API** development. Proficient in full-stack development with **React.js** and **Node.js**, and skilled in implementing **CI/CD pipelines, automated testing**, and providing reliable **production support**. Demonstrates excellent collaboration within **cross-functional teams** and contributes effectively to **Agile development workflows** and **continuous system improvements**.

Technical Skills

Languages: Python, Java, JavaScript, TypeScript

Frameworks: React.js, Node.js, Flutter, Django, Spring Boot

Web Technologies: HTML5, CSS3, JSON

Databases: MySQL, PostgreSQL, MongoDB

Tools & DevOps: Git & Git-Hub, Docker, Kubernetes, Postman API

Concepts: OOPS, Data Structures, Algorithms, Gen AI

Professional Experience

Software Developer

Sphere Cloud Systems Private Limited – Remote

02/2025 – Present

Responsibilities:

- Developed a **Payroll Management System** using **Python, Django REST Framework, Flutter**, and **PostgreSQL**
- Automated key HR functions including **salary calculation, attendance tracking, tax deductions**, and **pay slips generation**.
- Built a **cross-platform mobile application** using **Flutter** with dedicated **admin dashboard** and **employee self-service access**.
- Deployed backend services and PostgreSQL database on **AWS**, ensuring **scalable, secure**, and **high-availability** operations.

Projects

Title : - Medical Chatbot AI

- Developed an **AI-powered medical chatbot** using **Python, Lang Chain**, and **Generative AI** to enable intelligent, context-aware conversations for healthcare-related queries.

Technologies:- Python, Stream lit, Gen AI, Lang Chain

Responsibilities:-

- Designed a **responsive and interactive user interface** using **Stream lit** for real-time chatbot interactions.
- Integrated **Lang Chain** to manage **conversational memory**, enabling improved **contextual understanding** across multi-turn conversations.
- Implemented **Generative AI models** to deliver accurate, relevant, and informative responses to user medical inquiries.
- Conducted **rigorous testing** and **iterative enhancements** to optimize chatbot **accuracy, performance**, and **user experience**.
- **Source Code:-** https://github.com/Uday439/MEDICAL_CHATBOT

Title : - Portfolio

- Developed a **responsive and dynamic personal portfolio website** to showcase **skills, projects, and professional Experience** with a clean, user-friendly interface.

Technologies:- React.js, Node.js, Bootstrap, Git

Responsibilities:-

- Designed and developed a personal portfolio website using **React.js** for the frontend and **Node.js** for backend.
- Created a **responsive UI** using **Bootstrap**, ensuring seamless experience across desktop and mobile devices.
- Implemented features such as **project showcase, skill display, resume download, and contact form**.
- Ensured **cross-browser compatibility** and optimized the website for **performance and loading speed**.
- Deployed the application on **Netlify** with **continuous integration and deployment (CI/CD)** for real-time updates and version control.

Source Code:- <https://udayp.netlify.app/>

Education

Bachelor of Technology (B.Tech) in Electronics and Communication Engineering,

- Tadipatri Engineering College, JNTU Anantapur

Duration: 2020 – 2024, **CGPA:** 7.56

Intermediate (Class XII) – MPC

- Board of Intermediate Education, Andhra Pradesh

Duration: 2018 – 2019, **CGPA:** 6.46

Secondary School Certificate (SSC) – Class X

- Board of Intermediate Education, Andhra Pradesh

Duration: 2016 – 2017, **CGPA:** 6.52

Certifications and Additional Information

- Python Full Stack Development Certification** – Palle Technologies.
- Mobile Application Development Certification** – Elewayte.
- Internet Of Things (IOT) Certification** - NPTEL

Achievements

- Top Performer Award** during Python Full Stack training at *Palle Technologies* for exceptional project execution and technical skills
- Successfully deployed **3+ full-stack projects**, including a **Medical AI Chatbot, E-Commerce Website and Portfolio Website**
- Completed multiple mini-projects with real-time deployment using **Netlify**